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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| | |
|---------------------|--|
| Attorney Docket No. | Doerr 72 |
| First Inventor | Christopher Richard Doerr |
| Title | Configurations for Waveguide Crossings |
| Express Mail Label | EV 161248301 US |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages **16**]
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets **3**]
5. Oath or Declaration [Total Pages **3**]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:
 Commissioner for Patents
 Mail Stop Patent Application
 P. O. Box 1450
 Alexandria VA 22313-1450

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

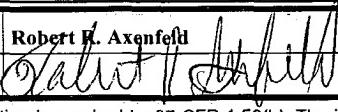
 Continuation Divisional Continuation-in-part (CIP) of prior application No.: / _____

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

| | | | |
|--|---|----------|---|
| <input type="checkbox"/> Customer Number or Bar Code Label | 23307 (Insert Customer No. or Attach bar code label here) | | <input type="checkbox"/> Correspondence address below |
| Name | | | |
| Address | | | |
| City | State | Zip Code | |
| Country | Telephone | | Fax |

Name (Print/Type) **Robert E. Axenfeld** Registration No. (Attorney/Agent) **37,276**Signature  Date **July 15, 2003**

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

07/15/03

17236

PTO

PTO/SB/17 (5-03)

Approved for use through 04/30/2003. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27TOTAL AMOUNT OF PAYMENT (\$)
\$958.00

Complete if Known

| | |
|----------------------|---------------------------|
| Application Number | |
| Filing Date | July 15, 2003 |
| First Named Inventor | Christopher Richard Doerr |
| Examiner Name | |
| Group Art Unit | |
| Attorney Docket No. | Doerr 72 |

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

 Deposit Account:

Deposit Account Number

Deposit Account Name

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity | Small Entity | Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|--------------|--------------|------------------------|---------------|-------------------------------------|----------|
| 1001 750 | 2001 375 | Utility filing fee | | <input type="text" value="750.00"/> | |
| 1002 330 | 2002 165 | Design filing | | <input type="text"/> | |
| 1003 520 | 2003 260 | Plant filing fee | | <input type="text"/> | |
| 1004 750 | 2004 375 | Reissue filing | | <input type="text"/> | |
| 1005 160 | 2005 80 | Provisional filing fee | | <input type="text"/> | |
| SUBTOTAL (1) | | (\$) | | \$750.00 | |

2. EXTRA CLAIM FEES FOR UTILITY AND

| Extra Claims | Fee from below | Fee Paid |
|-------------------------------|----------------|----------|
| Total Claims 20 -20** = 0 | X 18.00 | = 0.00 |
| Independent Claims 5 -3** = 2 | X 84.00 | = 168.00 |
| Multiple Dependent | | = |

| Large Entity | Small Entity | Fee Description |
|--------------|--------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 84 | 2201 42 | Independent claims in excess of 3 |
| 1203 280 | 2203 140 | Multiple dependent claim, if not paid |
| 1204 84 | 2204 42 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | (\$) |
| | | \$168.00 |

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

| Large Entity | Small Entity | Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------------|--------------|--|----------------------|-----------------|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | <input type="text"/> | | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | <input type="text"/> | | |
| 1053 130 | 1053 130 | Non - English specification | <input type="text"/> | | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | <input type="text"/> | | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | <input type="text"/> | | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | <input type="text"/> | | |
| 1251 110 | 2251 55 | Extension for reply within first month | <input type="text"/> | | |
| 1252 410 | 2252 205 | Extension for reply within second month | <input type="text"/> | | |
| 1253 930 | 2253 465 | Extension for reply within third month | <input type="text"/> | | |
| 1254 1,450 | 2254 725 | Extension for reply within fourth month | <input type="text"/> | | |
| 1255 1,970 | 2255 985 | Extension for reply within fifth month | <input type="text"/> | | |
| 1401 320 | 2401 160 | Notice of Appeal | <input type="text"/> | | |
| 1402 320 | 2402 160 | Filing a brief in support of an appeal | <input type="text"/> | | |
| 1403 280 | 2403 140 | Request for oral hearing | <input type="text"/> | | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | <input type="text"/> | | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | <input type="text"/> | | |
| 1453 1,300 | 2453 650 | Petition to revive - unintentional | <input type="text"/> | | |
| 1501 1,300 | 2501 650 | Utility issue fee (or reissue) | <input type="text"/> | | |
| 1502 470 | 2502 235 | Design issue fee | <input type="text"/> | | |
| 1503 630 | 2503 315 | Plant issue fee | <input type="text"/> | | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | <input type="text"/> | | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR § 1.17(q) | <input type="text"/> | | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Statement | <input type="text"/> | | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | <input type="text"/> | 40.00 | |
| 1809 750 | 2809 375 | Filing a submission after final rejection (37 CFR § 1.129(a)) | <input type="text"/> | | |
| 1810 750 | 2810 375 | For each additional invention to be examined (37 CFR § 1.129(b)) | <input type="text"/> | | |
| 1801 750 | 2801 375 | Request for Continued Examination (RCE) | <input type="text"/> | | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | <input type="text"/> | | |
| Other fee (specify) | | | | | |

*Reduced by Basic Filing Fee Paid

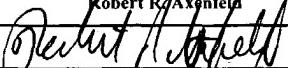
SUBTOTAL (3)

(\$)

\$40.00

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|---|-----------------------------------|--------|---------------|----------------|
| Name (Print/Type) | Robert R Axenfeld | Registration No. (Attorney/Agent) | 37,276 | Telephone | (215) 923-4466 |
| Signature |  | | Date | July 15, 2003 | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Christopher Richard Doerr

Docket No.

Doerr 72

Serial No.

Filing Date

July 15, 2003

Examiner

Group Art Unit

Invention:

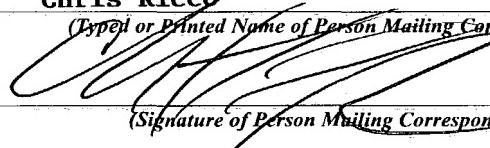
CONFIGURATIONS FOR WAVEGUIDE CROSSINGS

I hereby certify that the following correspondence:

- | | | |
|---|---------------------------|---|
| 1. Utility Patent Application Transmittal | 5. Application | 9. Information Disclosure Statement 1449 with Reference |
| 2. Fee Transmittal FY 2003 | 6. Drawings (3) | 10. Certificate of "Express Mail" |
| 3. Application Data Sheet | 7. Assignment Cover Sheet | 11. Check for filing fee |
| 4. Declaration | 8. Assignment | 12. Return Post Card |

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

July 15, 2003*(Date)*Chris Ricco*(Type or Printed Name of Person Mailing Correspondence)*
*(Signature of Person Mailing Correspondence)*EV 161248301 US*("Express Mail" Mailing Label Number)*

Note: Each paper must have its own certificate of mailing.